

TABLE 17.1

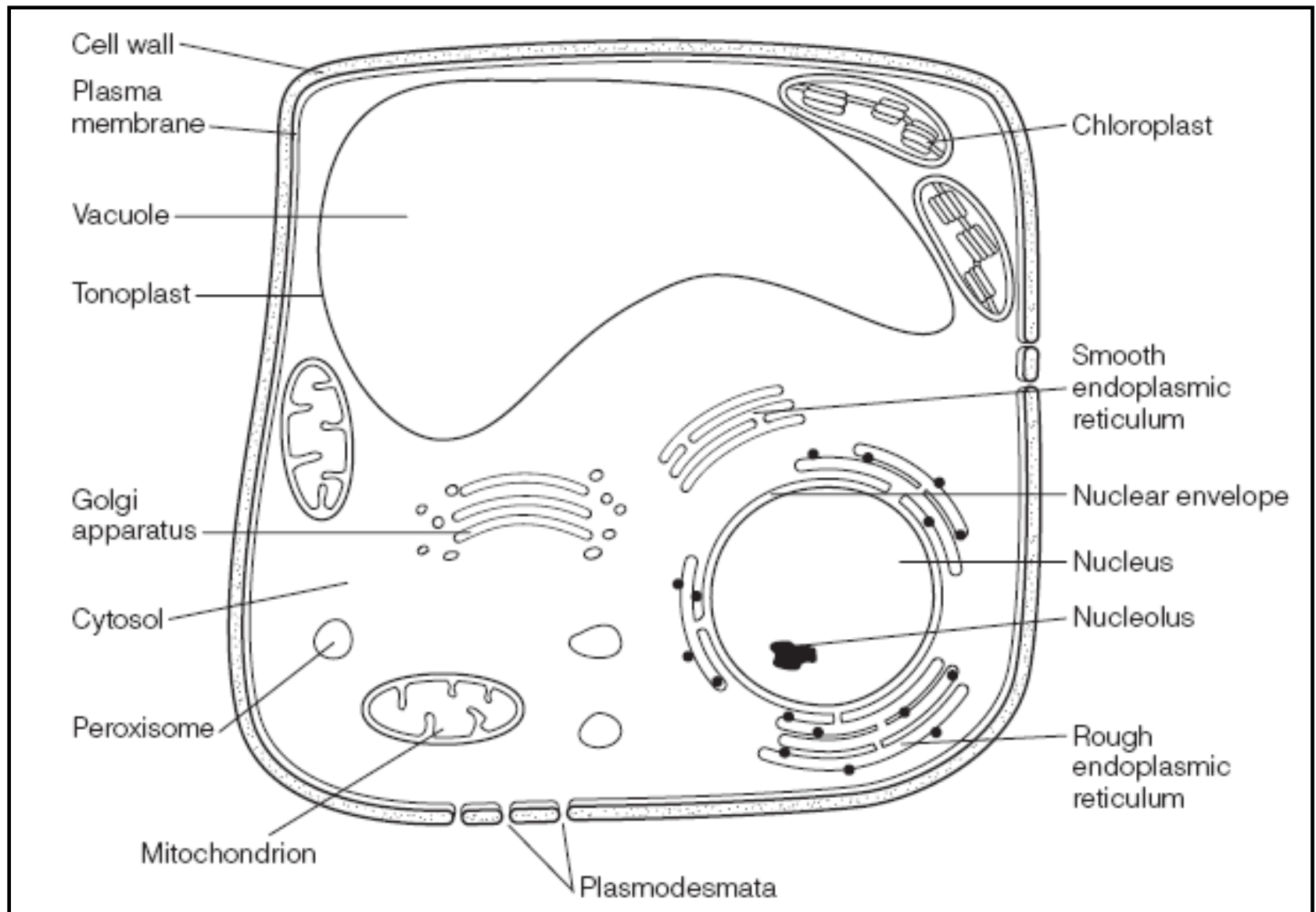
Some Differences Between Eukaryotic and Prokaryotic Cells

EUKARYOTIC CELLS

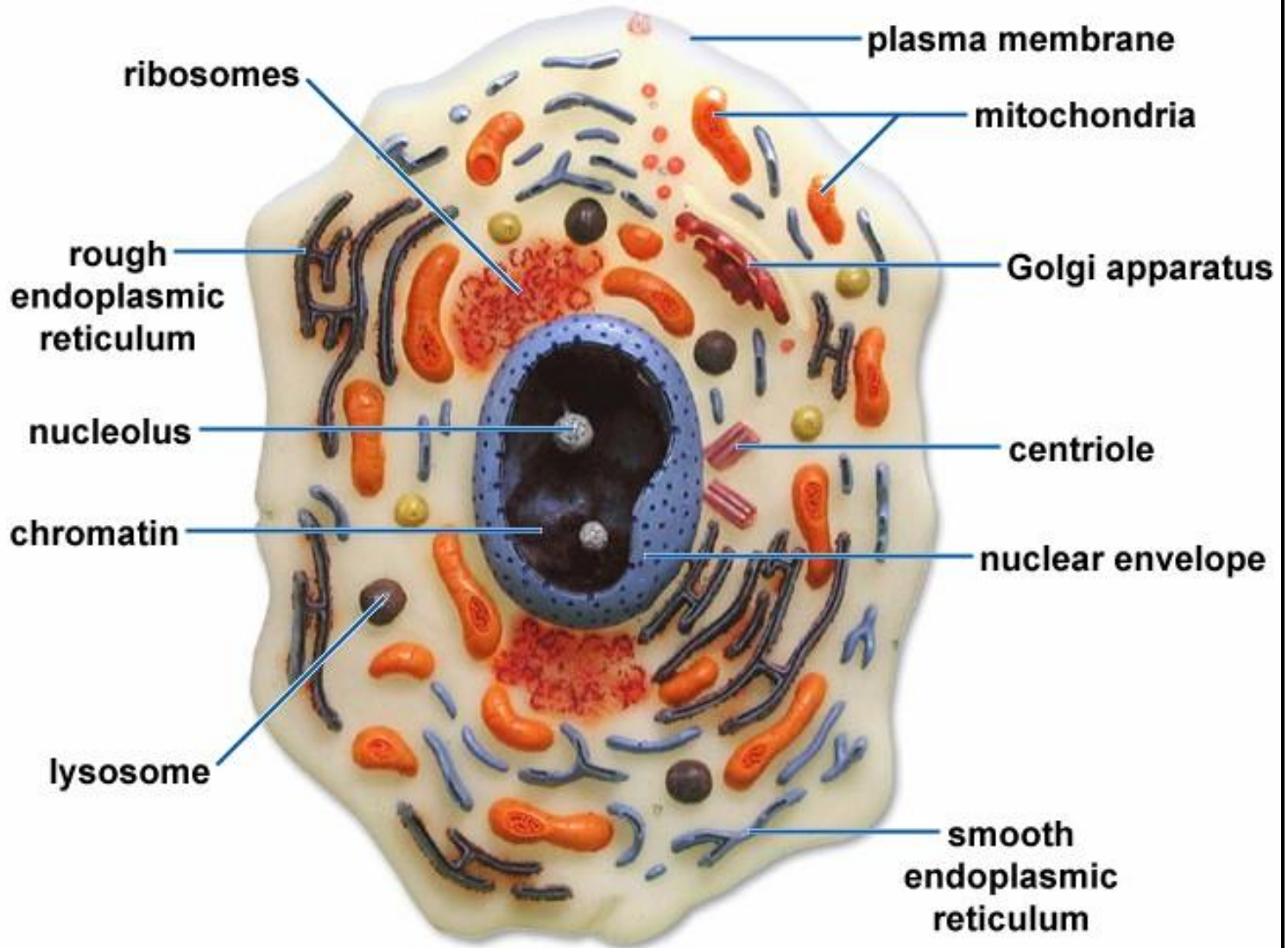
1. Have a nuclear envelope
2. Have two to hundreds of chromosomes per cell; DNA is double stranded
3. Have membrane-bound organelles (e.g., plastids, mitochondria)
4. Have 80S ribosomes¹
5. Have asexual reproduction by mitosis
6. Have sexual reproduction by fusion

PROKARYOTIC CELLS

1. Lack a nuclear envelope
2. Have a single, closed loop of double-stranded DNA plus (usually) several to 40 plasmids
3. Lack membrane-bound organelles
4. Have 70S ribosomes¹
5. Have asexual reproduction by fission
6. Sexual reproduction unknown



Plant Cell



Animal Cell